ABSTRACT OF THE DISCLOSURE

The invention comprises: processing for receiving an OFDM packet having a preamble and the following data transmission symbol, in which packet the subcarrier interval of the preamble is set wider than that of the data transmission symbol; processing for estimating a DC offset occurring at a receiving side by using the received preamble; processing for correcting the DC offset on the received data transmission symbol, according to the estimation result of the DC offset; and processing for demodulating the DC offset corrected data transmission symbol. Thus, it is possible to estimate a DC offset and then correct the DC offset according to the estimated value, in the OFDM packet with no nul symbol defined there.